BEST AVAILABLE COPY

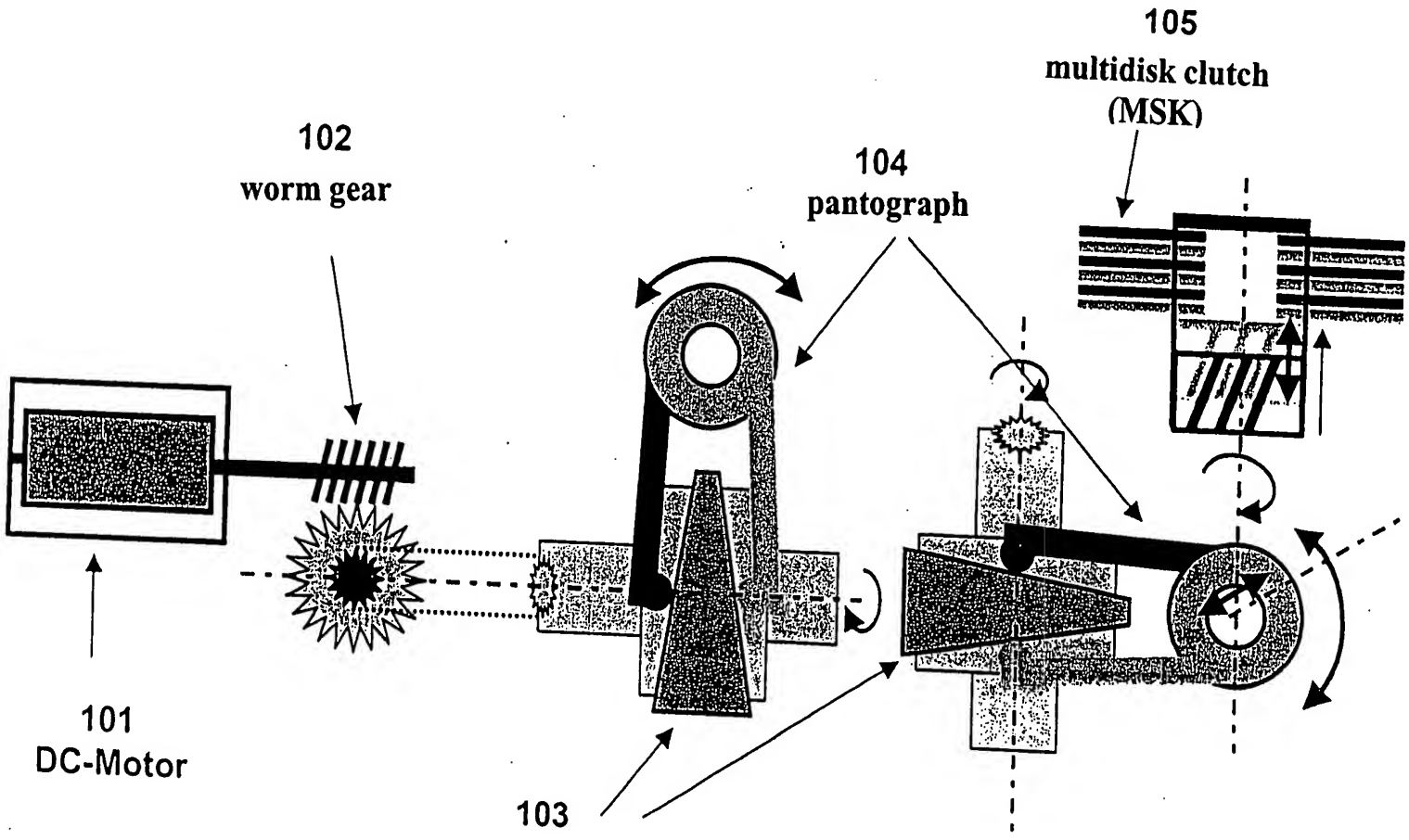

Figure1

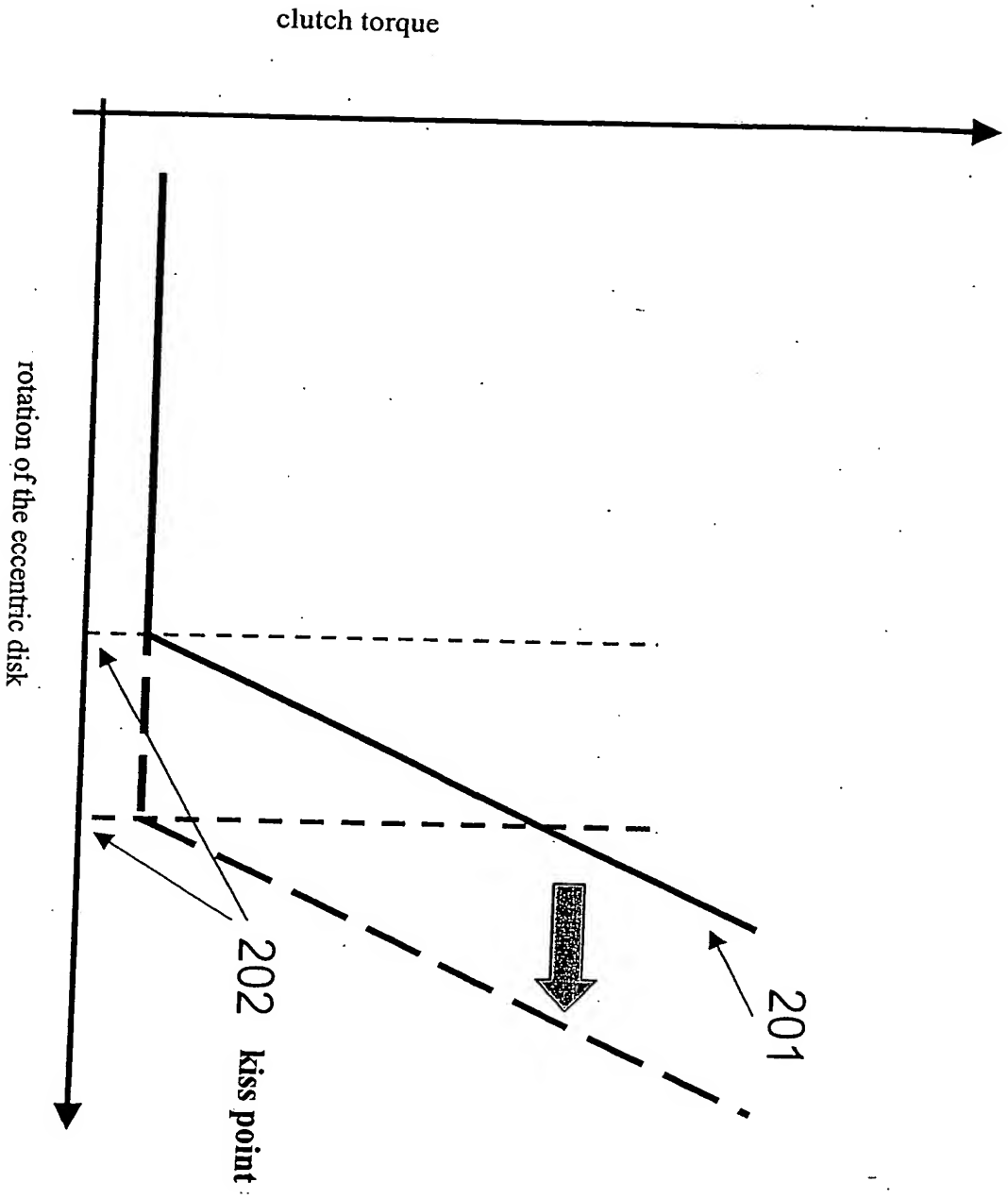
clutch torque
rotation of the eccentric disk
201
202
kiss point

Figure2

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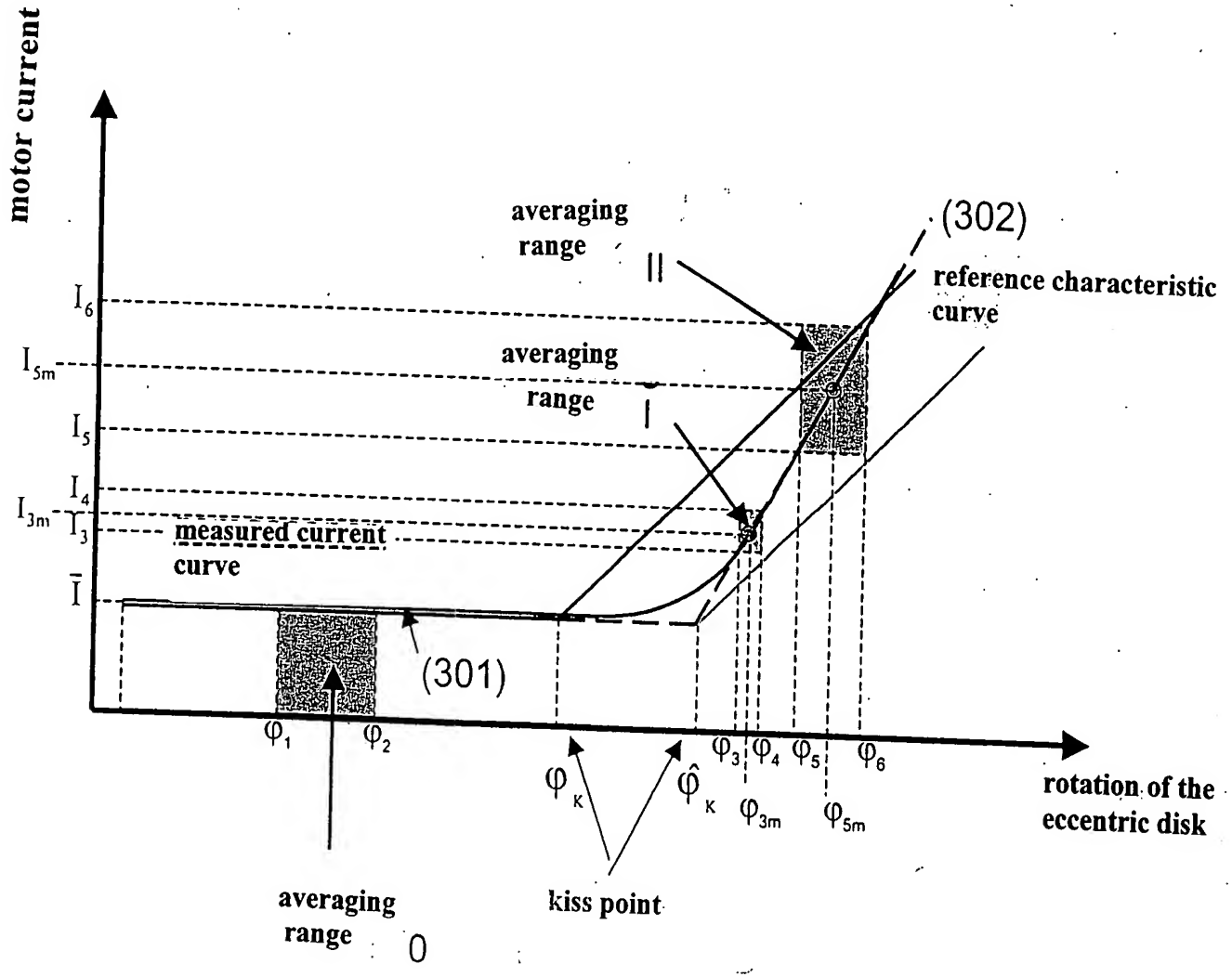

Figure3

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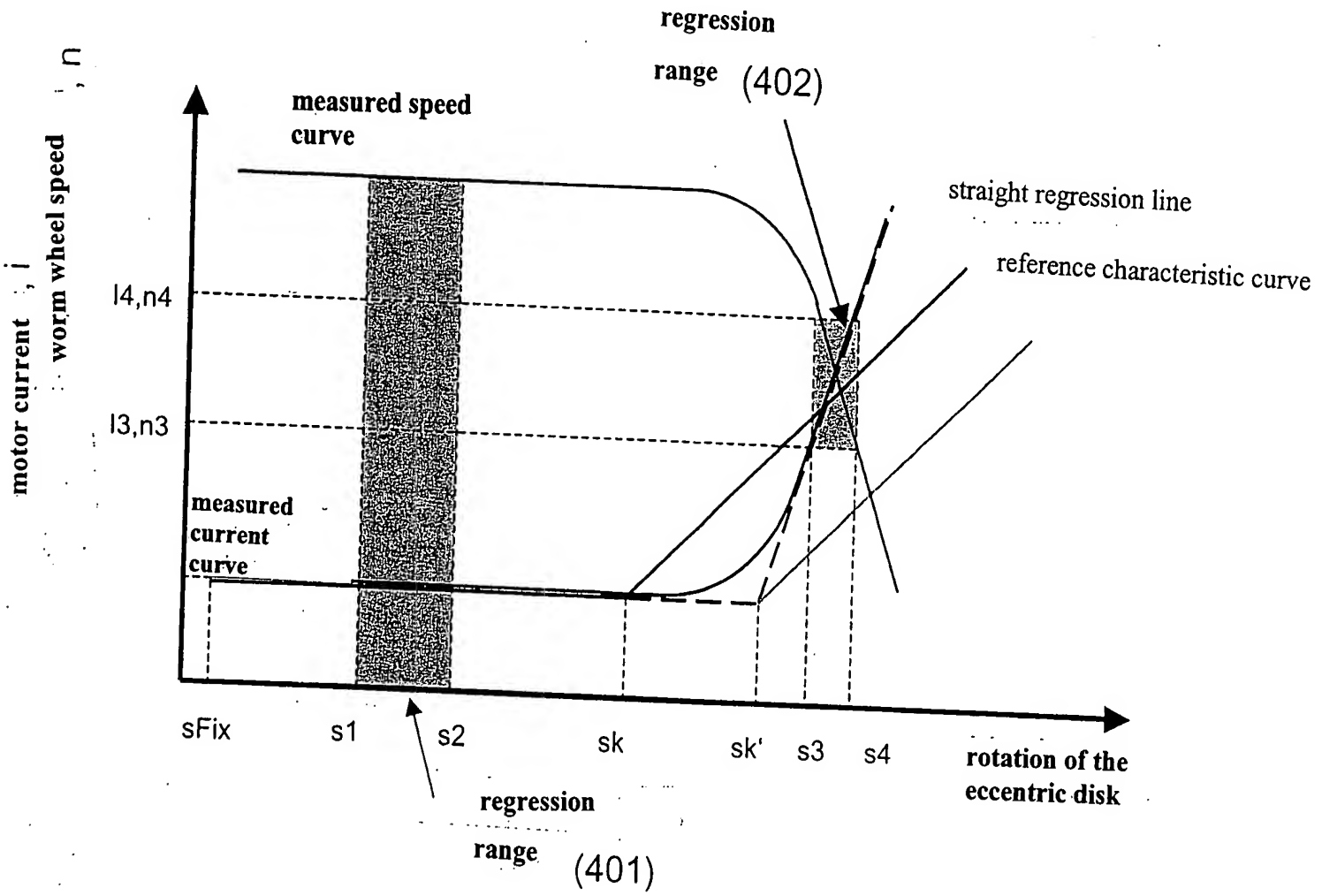

Figure4

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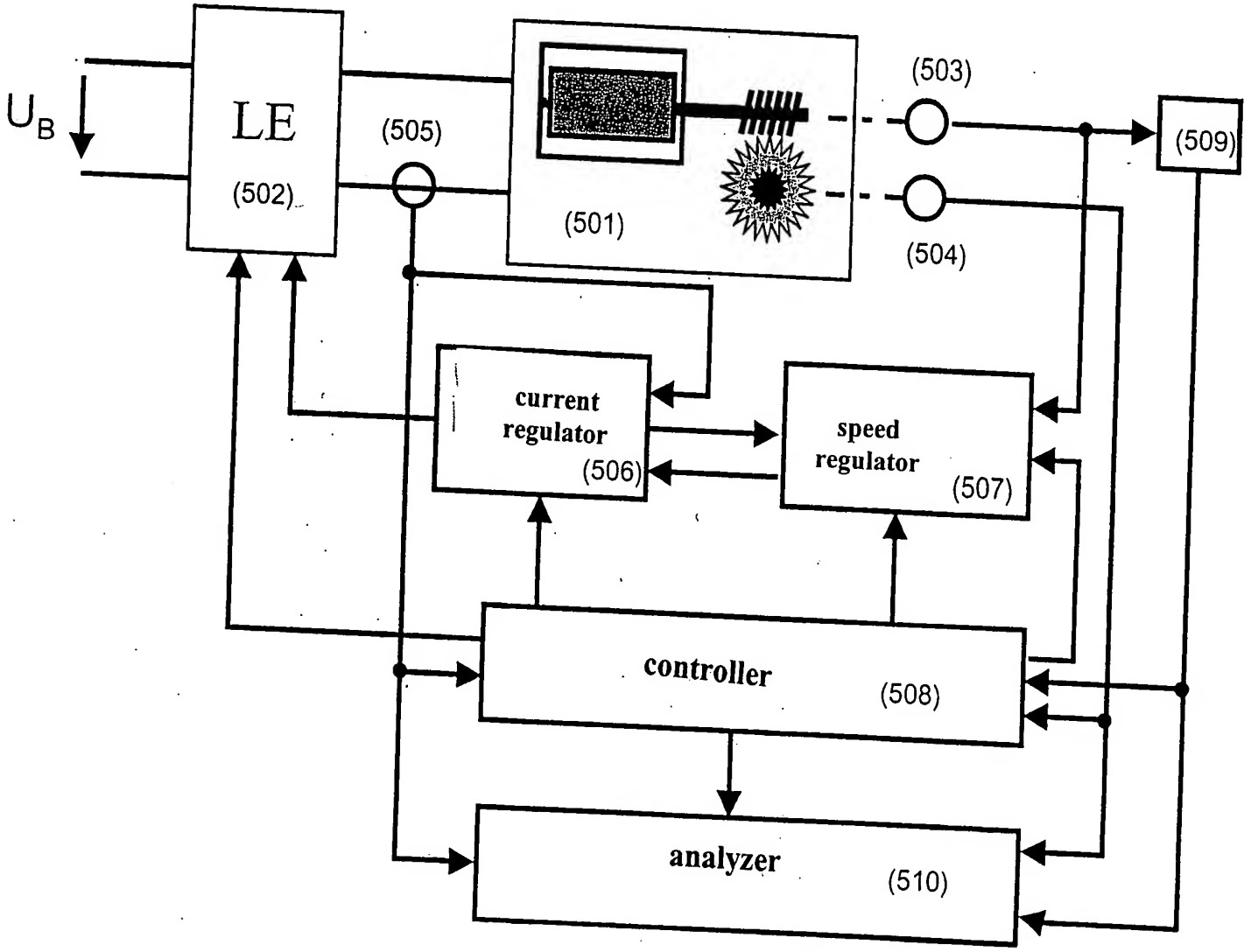


Figure5

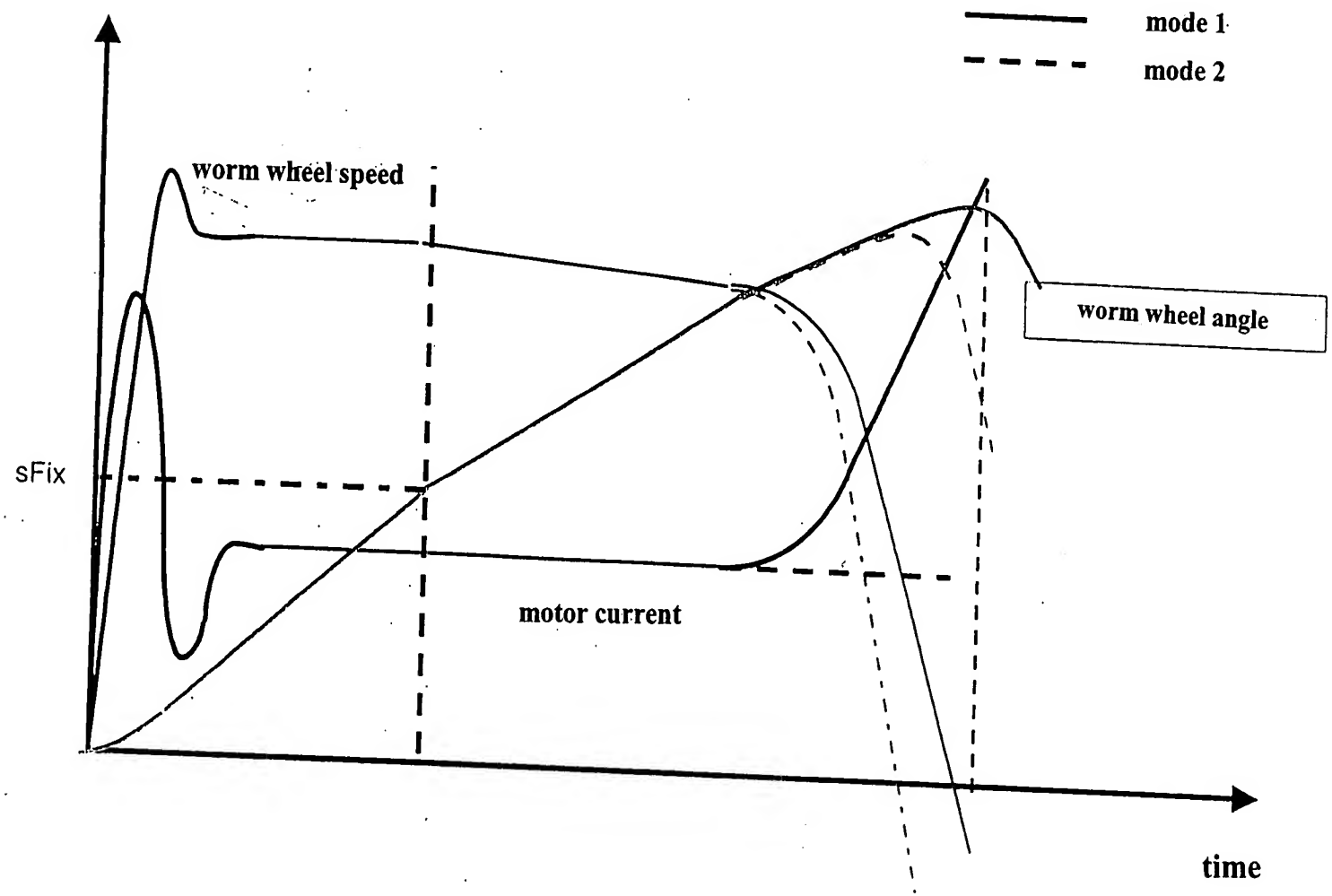
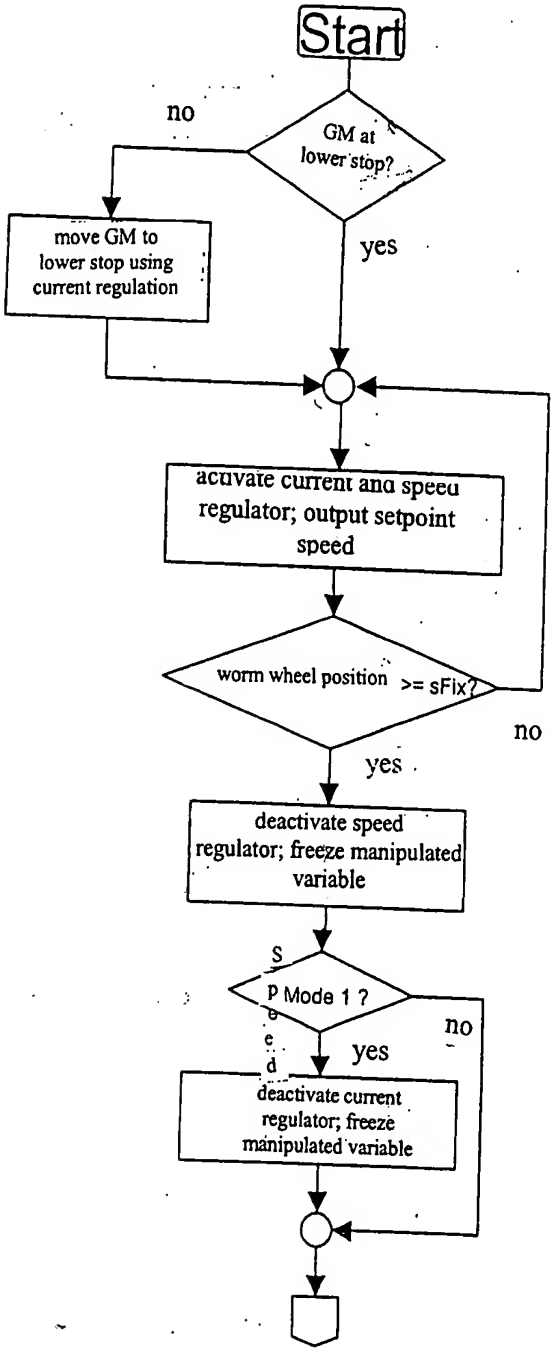

mode 1
mode 2
worm wheel speed
worm wheel angle
sFix
motor current
time

Figure6


Start
GM at lower stop?
no
yes
move GM to lower stop using current regulation
activate current and speed regulator; output setpoint speed
worm wheel position >= sFix?
no
yes
deactivate speed regulator; freeze manipulated variable
S
P Mode 1 ?
no
yes
deactivate current regulator; freeze manipulated variable

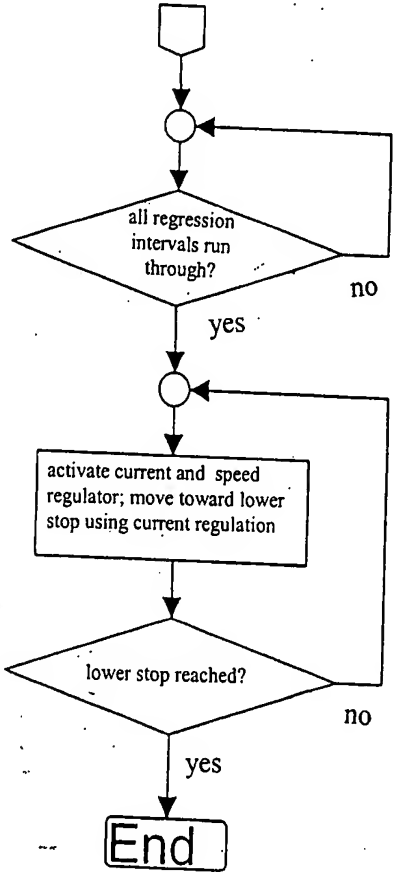

all regression intervals run through?
no
yes
activate current and speed regulator; move toward lower stop using current regulation
lower stop reached?
no
yes
End

Figure7

BEST AVAILABLE COPY

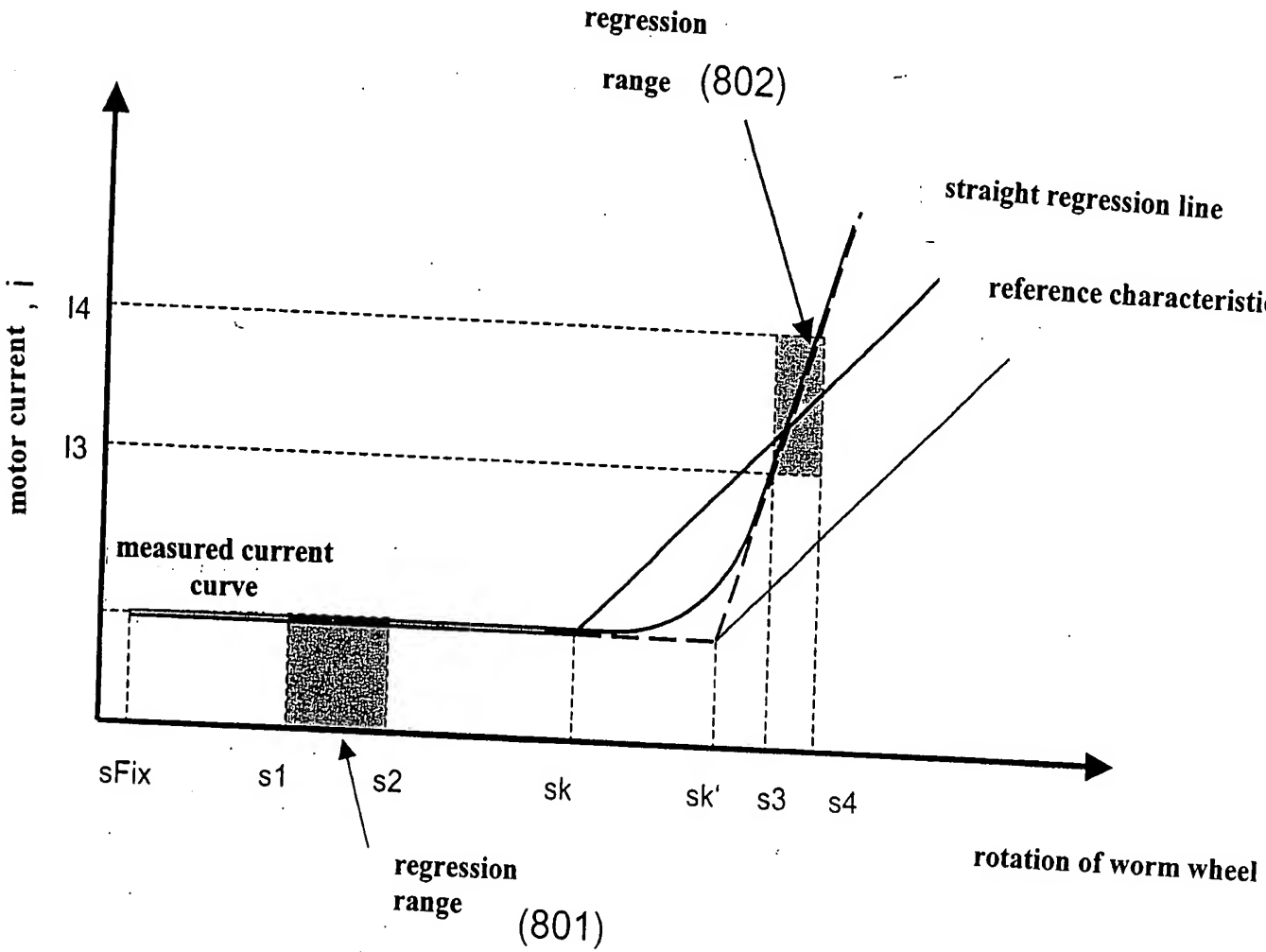


Figure8

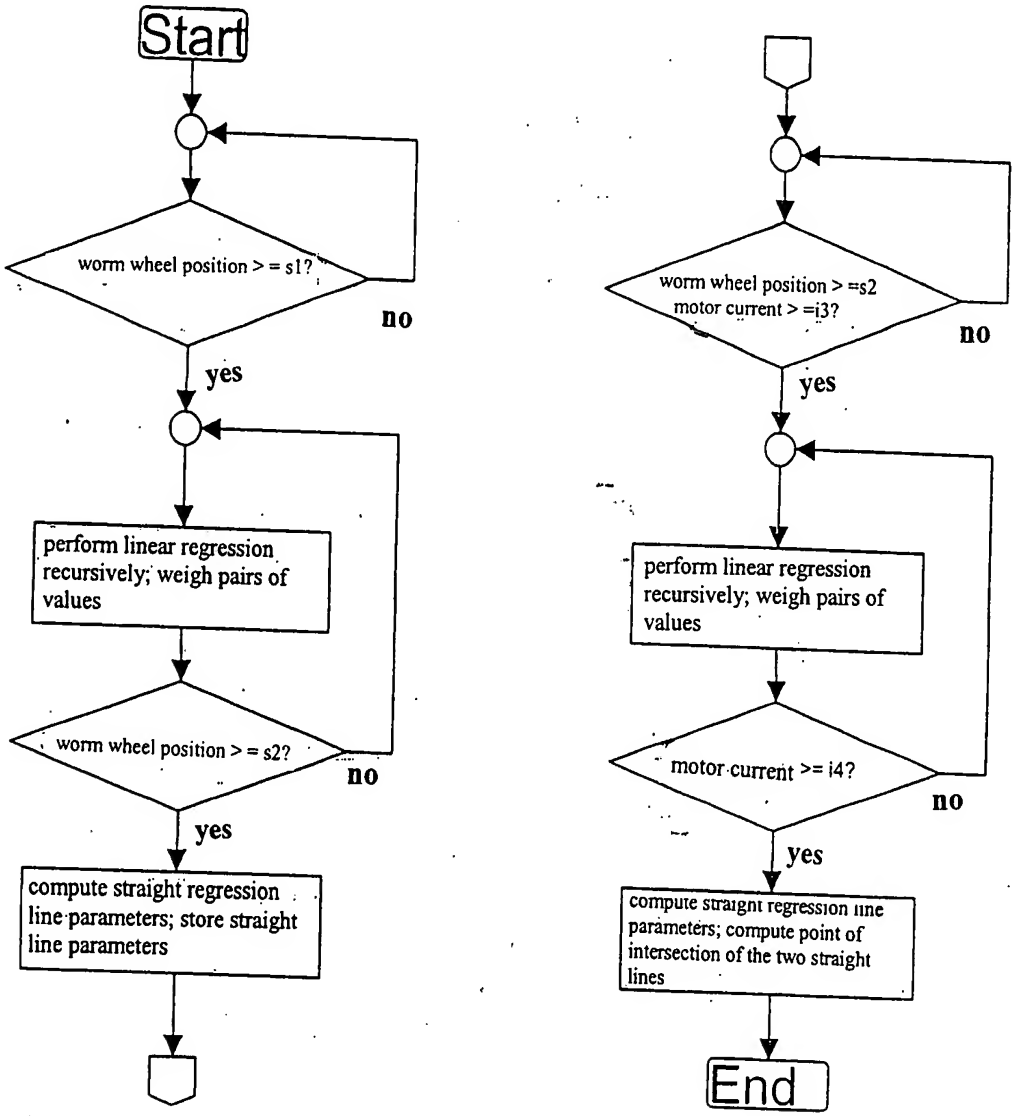

Start
worm wheel position > = s1?
no
yes
perform linear regression recursively; weigh pairs of values
worm wheel position > = s2?
no
yes
compute straight regression line parameters; store straight line parameters
worm wheel position > =s2 motor current > =i3?
no
yes
perform linear regression recursively; weigh pairs of values
motor current >= i4?
no
yes
compute straight regression line parameters; compute point of intersection of the two straight lines
End

Figure9